Environmental Protection Agency

- (5) In 40 CFR 1068.120 we specify recordkeeping related to rebuilding engines.
- (6) In 40 CFR part 1068, subpart C, we identify several reporting and record-keeping items for making demonstrations and getting approval related to various exemptions.
- (7) In 40 CFR part 1068, subpart D, we identify several reporting and record-keeping items for making demonstrations and getting approval related to importing engines.
- (8) In 40 CFR 1068.450 and 1068.455 we specify certain records related to testing production-line engines in a selective enforcement audit.
- (9) In 40 CFR 1068.501 we specify certain records related to investigating and reporting emission-related defects.
- (10) In 40 CFR 1068.525 and 1068.530 we specify certain records related to recalling nonconforming engines.

APPENDIX I TO PART 1054—SUMMARY OF PREVIOUS EMISSION STANDARDS

The following standards apply to nonroad spark-ignition engines produced before the model years specified in §1054.1:

(a) Handheld engines. Phase 1 and Phase 2 standards apply for handheld engines as specified in 40 CFR 90.103 and summarized in the following tables:

Table 1 To Appendix I—Phase 1 Emission Standards for Handheld Engines (g/kW-hr) a

Engine displacement class	HC	NO _x	СО
Class III	295	5.36	805
	241	5.36	805
	161	5.36	603

^a Phase 1 standards are based on testing with new engines only.

TABLE 2 TO APPENDIX I—PHASE 2 EMISSION STANDARDS FOR HANDHELD ENGINES (g/kW-hr) a

Engine displacement class	HC+NO _x	СО
Class III Class IV Class V	50 50 72	805 805 603

 $^{^{\}rm a}{\rm The}$ standards shown are the fully phased-in standards. See 40 CFR 90.103 for standards that applied during the phase-in period.

(b) Nonhandheld engines. Phase 1 and Phase 2 standards apply for nonhandheld engines as specified in 40 CFR 90.103 and summarized in the following tables:

Table 3 to Appendix I—Phase 1 Emission Standards for Nonhandheld Engines (g/kW-hr) ^a

Engine displacement class	HC+NO _X	со
Class I	16.1 13.4	519 519

^a Phase 1 standards are based on testing with new engines only.

Table 4 to Appendix I—Phase 2 Emission Standards for Nonhandheld Engines (g/kW-hr)

Engine displacement class	HC+NO _x	NMHC+ NO _x	со
Class I-A Class I-B Class I Class I	50 40 16.1 12.1	37 14.8 11.3	610 610 610 610

^aThe Class II standards shown are the fully phased-in standards. See 40 CFR 90.103 for standards that applied during the phase-in period.

APPENDIX II TO PART 1054—DUTY CYCLES FOR LABORATORY TESTING

(a) Test handheld engines with the following steady-state duty cycle:

G3 mode No.	Engine speed a	Torque (per- cent) b	Weighting factors
1	Rated speed	100	0.85
	Warm idle	0	0.15

^aTest engines at the specified speeds as described in

- (b) Test nonhandheld engines with one of the following steady-state duty cycles:
- (1) The following duty cycle applies for discrete-mode testing:

	G2 mode No.ª	Torque (per- cent) ^b	Weighting factors
1		100	0.09
2		75	0.2
3		50	0.29
4		25	0.3
5		10	0.07
6		0	0.05

^a Control engine speed as described in § 1054.505. Control engine speed for Mode 6 as described in § 1054.505(c) for idle operation.

(2) The following duty cycle applies for ramped-modal testing:

	RMC mode ^a	Time in mode (sec- onds)	Torque (per- cent) b c
1a 1h	Steady-state	41 20	0

b Test engines at 100 percent torque by setting operator demand to maximum. Control torque during idle at its warm idle speed as described in 40 CFR 1065.510.

idle operation.

^bThe percent torque is relative to the value established for full-load torque, as described in § 1054.505.

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RMC mode ^a	Time in mode (sec- onds)	Torque (per- cent) b c
2a Steady-state	135	100
2b Transition	20	*
3a Steady-state	112	10
3b Transition	20	*
4a Steady-state	337	75
4b Transition	20	*
5a Steady-state	518	25
5b Transition	20	*
6a Steady-state	494	50
6b Transition	20	*
7 Steady-state	43	0

^{*} Linear transition.

PART 1060—CONTROL OF EVAPORATIVE EMISSIONS FROM NEW AND IN-USE NONROAD AND STATIONARY EQUIPMENT

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Sec

1060.1 Which products are subject to this part's requirements?

1060.5 Do the requirements of this part apply to me?

1060.10 How is this part organized?

1060.15 Do any other CFR parts apply to me?

1060.30 Submission of information.

Subpart B—Emission Standards and Related Requirements

1060.101 What evaporative emission requirements apply under this part?

1060.102 What permeation emission control requirements apply for fuel lines?1060.103 What permeation emission control

requirements apply for fuel tanks?

1060.104 What running loss emission control requirements apply?

1060.105 What diurnal requirements apply for equipment?

1060.120 What emission-related warranty requirements apply?

1060.125 What maintenance instructions must I give to buyers?

1060.130 What installation instructions must I give to equipment manufacturers? 1060.135 How must I label and identify the

engines and equipment I produce? 1060.137 How must I label and identify the

fuel-system components I produce?

Subpart C—Certifying Emission Families

1060.201 What are the general requirements for obtaining a certificate of conformity?

1060.202 What are the certification requirements related to the general standards in §1060.101?

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1060.210 What records should equipment manufacturers keep if they do not apply for certification?

1060.225 How do I amend my application for certification?

1060.230 How do I select emission families?

1060.235 What emission testing must I perform for my application for a certificate of conformity?

1060.240 How do I demonstrate that my emission family complies with evaporative emission standards?

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1060.255 What decisions may EPA make regarding my certificate of conformity?

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1060.301 Manufacturer testing.

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1060.401 General Provisions.

Subpart F—Test Procedures

1060.501 General testing provisions.

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1060.515 How do I test EPA Nonroad Fuel Lines and EPA Cold-Weather Fuel Lines for permeation emissions?

1060.520 How do I test fuel tanks for permeation emissions?

1060.521 How do I test fuel caps for permeation emissions?

1060.525 How do I test fuel systems for diurnal emissions?

Subpart G—Special Compliance Provisions

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1060.605 Exemptions from evaporative emission standards.

1060.640 What special provisions apply to branded equipment?

Subpart H—Averaging, Banking, and Trading Provisions

1060.701 Applicability.

1060.705 How do I certify components to an emission level other than the standard

^a Control engine speed as described in § 1054.505. Control engine speed for Mode 6 as described in § 1054.505(c) for idle operation.

bAdvance from one mode to the next within a 20-second transition phase. During the transition phase, command a linear progression from the torque setting of the current mode to the torque setting of the next mode.

^cThe percent torque is relative to the value established for full-load torque, as described in § 1054.505.